



Flow v3.3 Supported Formats

User's Reference

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General Information

You can select from the supported codecs listed in the following tables, which are organized by device format and container:

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To check if a file ingest workflow is supported, combine the "File ingest from" entry of the source format and "Rewrap to" or "Encode to" of the target format.



Avid editing applications do not support direct import of XDCAM clips. Flow scans them and they are included in the database, but you cannot drag them into your Avid editing application.

MXF (Op-Atom)

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
DV 25 (consumer)	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO 25	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO 50	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO HD	1080i	50i	✓	✓	✓	✓	✓
		59.94i	✓	✓	✓	✓	✓
	720p	50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
IMX 30	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
IMX 40	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
IMX 50	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
XDCAM-HD SP / 25MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
XDCAM-HD HQ / 35MBit VBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
XDCAM-HD 422 / 50MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	50p	✓	✓	✓	✓	
59.94p		✓	✓	✓	✓		
XDCAM-EX SP / 25MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
XDCAM-EX HQ / 35MBit VBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	1080p	25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	720p	25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
JFIF 2:1	PAL	50i	✓	✓	✓		
	NTSC	59.94i	✓	✓	✓		
JFIF 3:1	PAL	50i	✓	✓	✓		
	NTSC	59.94i	✓	✓	✓		
JFIF 10:1	PAL	50i	✓	✓			
	NTSC	59.94i	✓	✓			
JFIF 20:1	PAL	50i	✓	✓	✓		
	NTSC	59.94i	✓	✓	✓		
JFIF 2:1p	PAL	25p	✓	✓			
	NTSC	29.97p	✓	✓			
JFIF 3:1p	PAL	25p	✓	✓	✓		
	NTSC	29.97p	✓	✓	✓		
JFIF 14:1p	PAL	25p	✓	✓	✓		
	NTSC	29.97p	✓	✓	✓		
JFIF 28:1p	PAL	25p	✓	✓	✓		
	NTSC	29.97p	✓	✓	✓		
JFIF 35:1p	PAL	25p	✓	✓			
	NTSC	29.97p	✓	✓			

Avid (MXF Op-Atom) /continued

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
JFIF 4:1s	288	50i	✓	✓			
	240	59.94i	✓	✓			
JFIF 15:1s	288	50i	✓	✓	✓		
	240	59.94i	✓	✓	✓		
Avid Uncompressed / 1:1 / 8-bit	PAL	50i	✓	✓	✓		
	NTSC	59.94i	✓	✓	✓		
	1080i	50i	✓	✓			
59.94i		✓	✓				
Avid Uncompressed / 1:1p / 8-bit	PAL	25p	✓	✓	✓		
		29.97p	✓	✓	✓		
	1080p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
	720p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
		50p	✓	✓			
59.94p	✓	✓					
	✓	✓					
	✓	✓					
Avid Uncompressed / 1:1 / 10-bit	PAL	50i	✓	✓			
	NTSC	59.94i	✓	✓			
		1080i	✓	✓			
		59.94i	✓	✓			
Avid Uncompressed / 1:1p / 10-bit	PAL	25p	✓	✓			
		29.97p	✓	✓			
	1080p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
	720p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
		50p	✓	✓			
59.94p	✓	✓					
	✓	✓					
	✓	✓					
AVC-Intra 50	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
AVC-Intra 100	1080i	50i	✓	✓	✓	✓	✓
		59.94i	✓	✓	✓	✓	✓
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
Avid DNxHD 75	1080p	50	✓	✓			
Avid DNxHD 185x 10-bit	1080i	50i	✓	✓			
Avid DNxHD 185			✓	✓	✓	✓	
Avid DNxHD 120			✓	✓	✓	✓	
Avid DNxHD 220x 10-bit			✓	✓			
Avid DNxHD 220	59.94i	50i	✓	✓	✓	✓	
Avid DNxHD 145			✓	✓	✓	✓	

Avid (MXF Op-Atom) /continued

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
Avid DNxHD 175x 10-bit	1080p	23.976p	✓	✓			
Avid DNxHD 175			✓	✓	✓	✓	
Avid DNxHD 115			✓	✓	✓	✓	
Avid DNxHD 36			✓	✓	✓	✓	
Avid DNxHD 175x 10-bit		24p					
Avid DNxHD 175							
Avid DNxHD 115							
Avid DNxHD 36							
Avid DNxHD 185x 10-bit	1080p	25p	✓	✓			
Avid DNxHD 185			✓	✓	✓	✓	✓
Avid DNxHD 120			✓	✓	✓	✓	✓
Avid DNxHD 36			✓	✓	✓	✓	✓
Avid DNxHD 220x 10-bit		29.97p	✓	✓			
Avid DNxHD 220			✓	✓	✓	✓	✓
Avid DNxHD 145			✓	✓	✓	✓	✓
Avid DNxHD 45			✓	✓	✓	✓	✓
Avid DNxHD 90x 10-bit	720p	23.976p	✓	✓			
Avid DNxHD 90			✓	✓	✓	✓	
Avid DNxHD 60			✓	✓	✓	✓	
Avid DNxHD 90x 10-bit		25p	✓	✓			
Avid DNxHD 90			✓	✓	✓	✓	✓
Avid DNxHD 60			✓	✓	✓	✓	✓
Avid DNxHD 110x 10-bit		29.97p	✓	✓			
Avid DNxHD 110			✓	✓	✓	✓	✓
Avid DNxHD 75			✓	✓	✓	✓	✓
Avid DNxHD 175x 10-bit		50p	✓	✓			
Avid DNxHD 175			✓	✓	✓	✓	
Avid DNxHD 115			✓	✓	✓	✓	
Avid DNxHD 220x 10-bit			✓	✓			
Avid DNxHD 220		59.94p	✓	✓	✓	✓	
Avid DNxHD 145			✓	✓	✓	✓	
Avid DNxHR LB		All	All	✓	✓		
Avid DNxHR SQ	All	All	✓	✓			
Avid DNxHR HQ	All	All	✓	✓	All		
Avid DNxHR HQX12-bit	All	All	✓	✓			

MXF (Op1a)

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
XDCAM-HD SP / 25MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
XDCAM-HD HQ / 35MBit VBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
XDCAM-HD 422 / 50MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	1080p	25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
720p	59.94p	✓	✓	✓	✓		
XDCAM-EX SP / 25MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
XDCAM-EX HQ / 35MBit VBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	1080p	25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	720p	25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
59.94p		✓	✓	✓	✓		
AVC-Intra 50	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	1080p	25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		23.976p	✓	✓	✓	✓	
	720p	25p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
AVC-Intra 100	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
50p		✓	✓	✓	✓		
XAVC-I	HD, 2K, 4K	Any up to 59.94p	✓	✓			
XAVC-L	HD, 2K, 4K	Any up to 59.94p	✓	✓			

Avid H.264 Proxies

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
Avid H264 Proxy 800kbps	1080i	59.94i	✓	✓	✓		
Avid H264 Proxy 2mbps	1080i	59.94i	✓	✓	✓		
Avid H264 Proxy 800kbps	1080i	50i	✓	✓	✓		
Avid H264 Proxy 2mbps	1080i	50i	✓	✓	✓		
Avid H264 Proxy 800kbps	720p	50p	✓	✓	✓		
Avid H264 Proxy 2mbps	720p	50p	✓	✓	✓		
Avid H264 Proxy 800kbps	720p	59.94p	✓	✓	✓		
Avid H264 Proxy 2mbps	720p	59.94p	✓	✓	✓		
Avid H264 Proxy 1500kbps	NTSC	59.94i	✓	✓	✓		
Avid H264 Proxy 800kbps	NTSC	59.94i	✓	✓	✓		
Avid H264 Proxy 800kbps	PAL	50i	✓	✓	✓		
Avid H264 Proxy 1500kbps	PAL	50i	✓	✓	✓		
Avid H264 Proxy 800kbps	1080p	23.976p	✓	✓	✓		
Avid H264 Proxy 800kbps	1080p	25p	✓	✓	✓		
Avid H264 Proxy 800kbps	1080p	29.97p	✓	✓	✓		
Avid H264 Proxy 800kbps	720p	23.976p	✓	✓	✓		
Avid H264 Proxy 800kbps	720p	25p	✓	✓	✓		
Avid H264 Proxy 800kbps	720p	29.97p	✓	✓	✓		

QuickTime (MOV)

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
DV 25 (consumer)	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO 25	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO 50	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO HD	1080i	50i	✓	✓	✓	✓	✓
		59.94i	✓	✓	✓	✓	✓
	720p	50p	✓	✓	✓	✓	✓
		59.94p	✓	✓	✓	✓	✓
IMX 30	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
IMX 40	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
IMX 50	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
XDCAM-HD SP / 25MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		30p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		30p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
		60p	✓	✓	✓	✓	

QuickTime MOV /continued

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
XDCAM-HD HQ / 35MBit VBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
XDCAM-HD 422 / 50MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		30p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
XDCAM-EX SP / 25MBit CBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		30p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		30p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
XDCAM-EX HQ / 35MBit VBR	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
		59.94p	✓	✓	✓	✓	
		60p	✓	✓	✓	✓	
Quicktime Uncompressed 8-bit	PAL	50i	✓	✓			
	NTSC	59.94i	✓	✓			
	1080i	50i	✓	✓			
		59.94i	✓	✓			
	1080p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
	720p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
50p		✓	✓				
		59.94p	✓	✓			

QuickTime MOV /continued

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
Quicktime Uncompressed 10-bit	PAL	50i	✓	✓			
	NTSC	59.94i	✓	✓			
	1080i	50i	✓	✓			
		59.94i	✓	✓			
	1080p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
	720p	23.976p	✓	✓			
		25p	✓	✓			
		29.97p	✓	✓			
		50p	✓	✓			
		59.94p	✓	✓			
		60p	✓	✓			
	AJA Uncompressed RGB 10-bit	PAL	50i	✓	✓		
NTSC		59.94i	✓	✓			
1080i		50i	✓	✓			
		59.94i	✓	✓			
1080p		23.976p					
		25p					
		29.97p					
720p		23.976p					
		25p					
		29.97p					
	50p						
	59.94p						
	60p						
AVC-Intra 50	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
59.94p		✓	✓	✓	✓		
	60p	✓	✓	✓	✓		
AVC-Intra 100	1080i	50i	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
	1080p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		29.97p	✓	✓	✓	✓	
	720p	23.976p	✓	✓	✓	✓	
		25p	✓	✓	✓	✓	
		50p	✓	✓	✓	✓	
59.94p		✓	✓	✓	✓		
	60p	✓	✓	✓	✓		
Avid DNxHD 185x 10-bit	1080i	50i	✓	✓			
Avid DNxHD 185			✓	✓	✓	✓	
Avid DNxHD 120			✓	✓	✓	✓	
Avid DNxHD 220x 10-bit		59.94i	✓	✓			
Avid DNxHD 220			✓	✓	✓	✓	
Avid DNxHD 145			✓	✓	✓	✓	

QuickTime MOV /continued

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture	
Avid DNxHD 175x 10-bit	1080p	23.976p	✓	✓				
Avid DNxHD 175			✓	✓	✓	✓		
Avid DNxHD 115			✓	✓	✓	✓		
Avid DNxHD 36			✓	✓	✓	✓		
Avid DNxHD 175x 10-bit		24p	✓	✓				
Avid DNxHD 175			✓	✓	✓	✓		
Avid DNxHD 115			✓	✓	✓	✓		
Avid DNxHD 36		25p	✓	✓	✓	✓		
Avid DNxHD 185x 10-bit			✓	✓	✓	✓		
Avid DNxHD 185			✓	✓	✓	✓		
Avid DNxHD 120		29.97p	✓	✓				
Avid DNxHD 36			✓	✓	✓	✓		
Avid DNxHD 220x 10-bit			✓	✓	✓	✓		
Avid DNxHD 220		720p	23.976p	✓	✓			
Avid DNxHD 90				✓	✓	✓	✓	
Avid DNxHD 60	✓			✓	✓	✓		
Avid DNxHD 90x 10-bit	25p		✓	✓				
Avid DNxHD 90			✓	✓	✓	✓		
Avid DNxHD 60			✓	✓	✓	✓		
Avid DNxHD 110x 10-bit	29.97p		✓	✓				
Avid DNxHD 110			✓	✓	✓	✓		
Avid DNxHD 75			✓	✓	✓	✓		
Avid DNxHD 175x 10-bit	50p		✓	✓				
Avid DNxHD 175		✓	✓	✓	✓			
Avid DNxHD 115		✓	✓	✓	✓			
Avid DNxHD 220x 10-bit		59.94p	✓	✓				
Avid DNxHD 220			✓	✓	✓	✓		
Avid DNxHD 145	60p	✓	✓	✓	✓			
ProRes 422	All	All	✓	✓	✓	✓		
ProRes 422 HQ	All	All	✓	✓	✓	✓		
ProRes 422 LT	All	All	✓	✓	✓	✓		
ProRes 422 Proxy	All	All	✓	✓	✓	✓		
ProRes 4444	All	All	✓	✓				
ProRes 4444 XQ	All	All	✓	✓				

QuickTime MOV

Animation	Black & White	All	All					
	4 Grays							
	4 Colors							
	16 Grays							
	16 Colors							
	256 Grays					✓		
	256 Colors					✓		
	1000s Colors					✓		
Millions Colors			✓					
Millions Plus Colors			✓					

Universal Media File™

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
DVCPRO 25	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO 50	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
DVCPRO HD	1080i	50i	✓	✓	✓	✓	✓
		59.94i	✓	✓	✓	✓	✓
	720p	50p	✓	✓	✓	✓	
		59.94i	✓	✓	✓	✓	
IMX 30	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
IMX 40	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
IMX 50	PAL	50i	✓	✓	✓	✓	✓
	NTSC	59.94i	✓	✓	✓	✓	✓
Avid DNxHD 185	1080i	50i	✓	✓	✓	✓	
Avid DNxHD 120			✓	✓	✓	✓	
Avid DNxHD 220	1080i	59.94i	✓	✓	✓	✓	
Avid DNxHD 145			✓	✓	✓	✓	
Avid DNxHD 175	1080p	29.976p	✓	✓	✓	✓	
Avid DNxHD 115			✓	✓	✓	✓	
Avid DNxHD 36		24p					
Avid DNxHD 175							
Avid DNxHD 115	1080p	25p	✓	✓	✓	✓	
Avid DNxHD 36			✓	✓	✓	✓	
Avid DNxHD 185	1080p	29.97p	✓	✓	✓	✓	
Avid DNxHD 120			✓	✓	✓	✓	
Avid DNxHD 36		25p	✓	✓	✓	✓	
Avid DNxHD 220			✓	✓	✓	✓	
Avid DNxHD 145	1080p	29.97p	✓	✓	✓	✓	
Avid DNxHD 45			✓	✓	✓	✓	
Avid DNxHD 90		23.976p	✓	✓	✓	✓	
Avid DNxHD 60			✓	✓	✓	✓	
Avid DNxHD 90	720p	25p	✓	✓	✓	✓	
Avid DNxHD 60			✓	✓	✓	✓	
Avid DNxHD 110		29.97p	✓	✓	✓	✓	
Avid DNxHD 75			✓	✓	✓	✓	
Avid DNxHD 175	720p	50p	✓	✓	✓	✓	
Avid DNxHD 115			✓	✓	✓	✓	
Avid DNxHD 220	720p	59.94p	✓	✓	✓	✓	
Avid DNxHD 145			✓	✓	✓	✓	

AVI

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to	Rewrap to	Edit While Capture
DV 25 (consumer)	PAL	50i	✓	✓	✓	✓	
	NTSC	59.94i	✓	✓	✓	✓	
DVCPRO 25	PAL	50i	✓	✓	✓	✓	
	NTSC	59.94i	✓	✓	✓	✓	

H.264 MP4

Codec	Raster	Frame Rate	Scan from	File ingest from	Encode to
High Quality, Full Size (3.2 Mbps)	All	All	✓	✓	✓
High Quality, Half Size (3.2 Mbps)			✓	✓	✓
High Quality, Quarter Size (3.2 Mbps)			✓	✓	✓
Medium Quality, Full Size (800 kbps)	All	All	✓	✓	✓
Medium Quality, Half Size (800 kbps)			✓	✓	✓
Medium Quality, Quarter Size (800 kbps)			✓	✓	✓
Low Quality, Full Size (400 kbps)	All	All	✓	✓	✓
Low Quality, Half Size (400 kbps)			✓	✓	✓
Low Quality, Quarter Size (400 kbps)			✓	✓	✓

MPEG2 Program Stream

Codec	Raster	Frame Rate	Scan from	File ingest from
MPEG1	All	All	✓	✓
MPEG2			✓	✓
H.264			✓	✓

MPEG2 Transport Stream

Codec	Raster	Frame Rate	Scan from	File ingest from
MPEG1	All	All	✓	✓
MPEG2			✓	✓
H.264			✓	✓

MPEG2 Raw Sequence

Codec	Raster	Frame Rate	Scan from	File ingest from
MPEG1	All	All	✓	✓
MPEG2			✓	✓
H.264			✓	✓

MP4

Codec	Raster	Frame Rate	Scan from	File ingest from
H.264	All	All	✓	✓
XAVC-S	All	All	✓	✓

Panasonic P2

Codec	Raster	Frame Rate	Scan from	File ingest from
DVCPRO 25	PAL	50i	✓	✓
	NTSC	59.94i	✓	✓
DVCPRO 50	PAL	50i	✓	✓
	NTSC	59.94i	✓	✓
DVCPRO HD	1080i	50i	✓	✓
		59.94i	✓	✓
	720p	50p	✓	✓
		59.94p	✓	✓
AVC-Intra 50	1080i	50i	✓	✓
		59.94i	✓	✓
	1080p	23.976p	✓	✓
		25p	✓	✓
		29.97p	✓	✓
	720p	23.976p	✓	✓
		25p	✓	✓
		50p	✓	✓
AVC-Intra 100	1080i	50i	✓	✓
		59.94i	✓	✓
	1080p	23.976p	✓	✓
		25p	✓	✓
		29.97p	✓	✓
	720p	23.976p	✓	✓
		25p	✓	✓
		50p	✓	✓
		59.94p	✓	✓

R3D (RED)

Codec	Raster	Frame Rate	Scan from	File ingest from
R3D	All	All	✓	✓

XDCAM-EX MP4

Codec	Raster	Frame Rate	Scan from	File ingest from
XDCAM-EX SP / 25MBit CBR	1080i	50i	✓	✓
		59.94i	✓	✓
	1080p ‡	23.976p	✓	✓
XDCAM-EX HQ / 35MBit VBR	1080i	50i	✓	✓
		59.94i	✓	✓
		23.976p	✓	✓
	1080p	25p	✓	✓
		29.97p	✓	✓
		23.976p	✓	✓
	720p	25p	✓	✓
		29.97p	✓	✓
		50p	✓	✓
		59.94p	✓	✓

‡ Stored on device as 1080i59.94 with pulldown and treated as 1080i59.94 by Flow.

XDCAM MXF

Codec	Raster	Frame Rate	Scan from	File ingest from
XDCAM-HD SP / 25MBit CBR	1080i	50i	✓	✓
		59.94i	✓	✓
	1080p	23.976p	✓	✓
XDCAM-HD HQ / 35MBit VBR	1080i	50i	✓	✓
		59.94i	✓	✓
	1080p	23.976p	✓	✓
XDCAM-HD 422 / 50MBit CBR	1080i	50i	✓	✓
		59.94i	✓	✓
		23.976p	✓	✓
	1080p	25p	✓	✓
		29.97p	✓	✓
		50p	✓	✓
	720p	59.94p	✓	✓
DVCPRO 25	PAL	50i	✓	✓
	NTSC	59.94i	✓	✓
IMX 30	PAL	50i	✓	✓
	NTSC	59.94i	✓	✓
IMX 40	PAL	50i	✓	✓
	NTSC	59.94i	✓	✓
IMX 50	PAL	50i	✓	✓
	NTSC	59.94i	✓	✓
XAVC-I	HD, 2K, 4K	Any up to 59.94p	✓	✓
XAVC-L	HD, 2K, 4K	Any up to 59.94p	✓	✓

Devices and Structures

The following devices and structures are supported:

- P2
- XDCAM EX
- XDCAM HD
- GFCAM
- CanonXF
- JVC
- Ikegami
- Design rule for Camera File system (DCF) - e.g. GoPro, Flip, Canon, Drift
- Advanced Video Coding High Definition (AVCHD)

Image Sequence Formats

Flow treats a folder of images as a clip, where each image file is a frame of a clip. Image files for an image sequence must share the same naming format with consecutive and incremental numbering. The following file formats are supported:

- ARI (ARRIRAW)
- BMP (Bitmap)
- CIN (Cineon)
- DNG (Digital Negative)
- DPX (Digital Picture Exchange)
- EXR (Open EXR)
- JPEG (Joint Photographic Experts Group)
- PNG (Portable Networks Graphic)
- TIFF (Tagged Image File Format)

If the image sequence has a sidecar audio file in .WAV format, this can be added to the same folder as your images. When Flow creates a proxy file for the image sequence, the audio is included.

See the *Flow Browse User's Guide* for further information.

Stills Image Formats

See the following topics:

[RAW Formats 17](#)
[Image Formats 21](#)

RAW Formats

When working with RAW formats, the following devices are supported:

Adobe	Digital Negative (DNG)		
Agfa	AgfaPhoto DC-833m		
Apple	QuickTake 100	QuickTake 150	QuickTake 200
ARRI	ARRIRAW format		
AVT	AVT F-080C AVT F-510C	AVT F-145C AVT F-810C	AVT F-201C
Canon	PowerShot 600 PowerShot A5 PowerShot A5 Zoom PowerShot A50 PowerShot A460	PowerShot G15 PowerShot S2 IS PowerShot S3 IS PowerShot S5 IS PowerShot SD300	EOS D30 EOS D60 EOS 5D EOS 5D Mark II EOS 5D Mark III
	PowerShot A470 PowerShot A530 PowerShot A570 PowerShot A590 PowerShot A610	PowerShot S30 PowerShot S40 PowerShot S45 PowerShot S50 PowerShot S60	EOS 6D EOS 7D EOS 10D EOS 20D EOS 30D
	PowerShot A620 PowerShot A630 PowerShot A640 PowerShot A650 PowerShot A710 IS	PowerShot S70 PowerShot S90 PowerShot S95 PowerShot S100 PowerShot S110	EOS 40D EOS 50D EOS 60D EOS 300D / Digital Rebel / Kiss Digital
	PowerShot A720 IS PowerShot Pro70 PowerShot Pro90 IS PowerShot Pro1 PowerShot G1	PowerShot SX1 IS PowerShot SX110 IS PowerShot SX120 IS PowerShot SX220 HS PowerShot SX20 IS	EOS 350D / Digital Rebel XT / Kiss Digital N EOS 400D / Digital Rebel XTi / Kiss Digital X EOS 450D / Digital Rebel XSi / Kiss Digital X2 EOS 500D / Digital Rebel T1i / Kiss Digital X3 EOS 550D / Digital Rebel T2i / Kiss Digital X4
	PowerShot G1 X PowerShot G2 PowerShot G3 PowerShot G5 PowerShot G6	PowerShot SX30 IS PowerShot SX50 HS	EOS 600D / Digital Rebel T3i / Kiss Digital X5 EOS 650D / Digital Rebel T4i / Kiss Digital X6i EOS 1000D / Digital Rebel X5 / Kiss Digital F EOS 1100D / Digital Rebel T3 / Kiss Digital X50 EOS D2000C
	PowerShot G7 PowerShot G9 PowerShot G10 PowerShot G11 PowerShot G12		EOS M EOS-1D EOS-1DS EOS-1D X EOS-1D Mark II

Raw Formats /contd.

Canon				
/contd.				EOS-1D Mark II N EOS-1D Mark III EOS-1D Mark IV EOS-1Ds Mark II EOS-1Ds Mark III
Casio				
	QV-2000UX QV-3000EX QV-3500EX QV-4000 QV-5700	EX-Z4 EX-Z50 EX-Z500 EX-Z55 EX-Z60	EX-Z75 EX-Z750 EX-Z8 EX-Z850 EX-Z1050	EX-Z1080 EX-ZR100 Exlim Pro 505 Exlim Pro 600 Exlim Pro 700
	QV-R41 QV-R51 QV-R61 EX-S20 EX-S100			
Contax				
	N Digital			
Creative				
	PC-CAM 600			
Epson				
	R-D1			
Foculus				
	Foculus 531C			
Fuji				
	E550 E900 F700 F710 F800	S100FS S5000 S5100/S5500 S5200/S5600 S6000fd	HS20EXR HS30EXR F550EXR F600EXR F770EXR	X100 X10 IS-1
	F810 S2Pro S3Pro S5Pro S20Pro	S7000 S9000/S9500 S9100/S9600 S200EXR HS10/HS11	F800EXR X-Pro1 X-E1 XF1 X-S1	
Hasselblad				
	CFV	H3D	H4D	V96C
Imacon				
	lpress 16-megapixel	lpress 22-megapixel	lpress 39-megapixel	
ISG				
	ISG 2020x1520			
Kodak				
	DC20 DC25 DC40 DC50 DC120	DCS460A DCS520C DCS560C DCS620C DCS620X	EOSDCS1 EOSDCS3B NC2000F ProBack PB645C	DCS Pro SLR/n C330 C603 P850 P880
	DCS200 DCS315C DCS330C DCS420 DCS460	DCS660C DCS660M DCS720X DCS760C DCS760M	PB645H PB645M DCS Pro 14n DCS Pro 14nx DCS Pro SLR/c	Z980 Z981 Z990 Z1015 KAI-0340

Raw Formats /contd.

Konica	KD-400Z	KD-510Z		
Leaf	AFi 7 AFi-II 12 Aptus 17 Aptus 22 Aptus 54S	Aptus 65 Aptus 75 Aptus 75S Cantare CatchLight	CMost DCB2 Valeo 6 Valeo 11 Valeo 17	Valeo 22 Volare
Leica	Digilux 2 Digilux 3 D-LUX2	D-LUX3 D-LUX4 D-LUX5	D-LUX6 V-LUX1 V-LUX2	V-LUX3 V-LUX4
Logitech	Fotoman Pixtura			
Mamiya	ZD			
Micron	2010			
Minolta	RD175 DiMAGE 5 DiMAGE 7 DiMAGE 7i DiMAGE 7Hi	DiMAGE A1 DiMAGE A2 DiMAGE A200 DiMAGE G400 DiMAGE G500	DiMAGE G530 DiMAGE G600 DiMAGE Z2 Alpha/Dynax/Maxxum 5D Alpha/Dynax/Maxxum 7D	
Motorola	PIXL			
Nikon	D1 D1H D1X D2H D2Hs D2X D2Xs D3 D3s D3X D4 D40 D40X D50 D60	D70 D70s D80 D90 D100 D200 D300 D300s D600 D700 D3000 D3100 D3200 D5000 D5100	D7000 D800 D800E 1 J1 1 J2 1 V1 1 V2 E700 E800 E880 E900 E950 E990 E995 E2100	E2500 E3200 E3700 E4300 E4500 E5000 E5400 E5700 E8400 E8700 E8800 Coolpix P6000 Coolpix P7000 Coolpix P7100 Coolpix P7700 Coolpix S6
Nokia	N95	X2		

Raw Formats /contd.

Olympus

C3030Z	E-3	E-500	E-PL3
C5050Z	E-5	E-510	E-PL5
C5060WZ	E-10	E-520	E-PM1
C7070WZ	E-20	E-620	E-PM2
C70Z,C7000Z	E-30	E-P1	E-M5
C740UZ	E-300	E-P2	SP310
C770UZ	E-330	E-P3	SP320
C8080WZ	E-400	E-PL1	SP350
X200,D560Z,C350Z	E-410	E-PL1s	SP500UZ
E-1	E-420	E-PL2	SP510UZ
			SP550UZ
			SP560UZ
			SP570UZ
			XZ-1
			XZ-2

Panasonic

DMC-FZ8	DMC-FX150	DMC-GH2	
DMC-FZ18	DMC-G1	DMC-GH3	
DMC-FZ28	DMC-G2	DMC-GX1	
DMC-FZ30	DMC-G3	DMC-L1	
DMC-FZ35/FZ38	DMC-G5	DMC-L10	DMC-LX7
DMC-FZ40	DMC-GF1	DMC-LC1	
DMC-FZ50	DMC-GF2	DMC-LX1	
DMC-FZ100	DMC-GF3	DMC-LX2	
DMC-FZ150	DMC-GF5	DMC-LX3	
DMC-FZ200	DMC-GH1	DMC-LX5	

Pentax

*ist D	K10D	K2000/K-m	K-5 II s
*ist DL	K20D	K-x	K-7
*ist DL2	K100D	K-r	Optio S
*ist DS	K100D Super	K-5	Optio S4
*ist DS2	K200D	K-5 II	Optio 33WR
			Optio 750Z
			645D

Phase One

LightPhase	H 25	P 30
H 10	P 20	P 45
H 20	P 25	P 45+

Pixelink

A782

Polaroid

x530

Redcode

R3D format

Rollei

d530flex

RoverShot

3320af

Samsung

EX1	GX20	NX20	WB550
EX2F	NX10	NX200	WB2000
GX-1S	NX11	NX210	S85
GX10	NX100	NX1000	S850

Raw Formats /contd.

Sarnoff

4096x5440

Sigma

SD9	SD1	DP15	
SD10	SD1 Merrill	DP1X	DP25
SD14	DP1	DP2	DP2X
SD15	DP1 Merrill	DP2 Merrill	

Sinar

3072x2048	4080x4080	4080x5440	STI format
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SMaL

Ultra-Pocket 3	Ultra-Pocket 4	Ultra-Pocket 5	
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Sony

DSC-F828	DSLR-A330	NEX-3	SLT-A37
DSC-R1	DSLR-A350	NEX-5	SLT-A55V
DSC-RX1	DSLR-A380	NEX-5N	SLT-A57
DSC-RX100	DSLR-A450	NEX-5R	SLT-A65V
DSC-V3	DSLR-A500	NEX-6	SLT-A77V
DSLR-A100	DSLR-A550	NEX-7	
DSLR-A200	DSLR-A580	NEX-C3	SLT-A99V
DSLR-A230	DSLR-A700	NEX-F3	XCD-SX910CR
DSLR-A290	DSLR-A850	SLT-A33	
DSLR-A300	DSLR-A900	SLT-A35	

STV680

STV680 VGA

Image Formats

The following image formats are supported

Format	Scan	Proxy File
AI (Adobe Illustrator)	✓	✓
ARI (ARRIRAW)	✓	✓
BMP	✓	✓
CIN (Cineon),	✓	✓
DNG (Digital Negative)	✓	✓
DPX (Digital Picture Exchange)	✓	✓
EXR (Open EXR)	✓	✓
JPEG	✓	✓
PNG	✓	✓
PSD (Photoshop)	✓	✓
TIFF	✓	✓

Audio Formats

The following audio formats are supported:

Format	Scan	Proxy File
AIFF	✓	✓
MP3	✓	✓
WAV	✓	✓

